ELSEVIER

Journal of Organometallic Chemistry 560 (1998) 275

Journal of Organometallic Chemistry

Author index of Volume 560

Abhyankar, R.M., 131
Abu-Orabi, S., 69
Agarwala, U.C., 35
Alt, H.G., 69
Antonaroli, S., 137
Arimitsu, K., 253
Author, A., 273, 275, 277

Baker, P.K., 191
Balakrishna, M.S., 131
Barclay, T., 155
Beddoes, R.L., 265
Bengali, A.A., 55
Berry, S.W., 63
Bochkarev, L.N., 21
Bumagin, N.A., 163

Cabrera, A., 35
Chihara, T., 47
Cole, S., 55
Cordes, W., 155
Crociani, B., 137

DeGrace, S.A., 63
Delgado, E., 27
de Montauzon, D., 147
Devaud, M., 103
Dinger, M.B., 169, 233
Domenicano, A., 183
Drew, M.G., 191
Dulaney, K.E., 55

Eaborn, C., 41
Ebert, K.H., 211

Ferrer, M., 147
Fukin, G.K., 21

García, M.A., 27
Gonçalves, I.S., 117
Gupta, B.D., 155

Hagel, M., 257
Hanusa, T.P., 15
Hargittai*,, I., 183
Henderson, W., 169, 233
Hernández, E., 27
Héroguez, V., 109
Hinchliffe, J.R., 265

Ikegami, Y., 47

Jha, N.K., 35
Julià, A., 147

Kataoka, Y., 253
Kel'chevski, S.M., 163
Khorshev, S.Y., 21
Kokubo, K., 217
Kowalewska, A., 41
Kropotova, V.Y., 21
Kühn, F.E., 117

Lewinski, J., 89
Licht, E.H., 69
Li, X.-W., 211
Lopes, A.D., 117
Lorberth, J., 211

Mackie, S.C., 63
Mahon, M.F., 95
Mai, J.-F., 223
Mansilla, N., 27
Martínez-Cruz, L.A., 27
Massa, W., 211
Matsumasa, K., 217
Matsumoto, A., 47
Meehan, M.M., 191
Mesubi, M.A., 95
Milius, W., 69
Mingotaud, A.-F., 109
Mise, T., 47
Miura, M., 217
Molloy, K.C., 95
Moloney, M.G., 77
Moorcroft, D., 265
Muir, K.W., 245

Nédelec, J.Y., 103
Nicholson, B.K., 169
Nikitinsky, A.V., 21
Nomura, M., 217
N. Zakharov, L., 21

Oçafrain, M., 103
Ohmori, H., 47
Omotowa, B.A., 95
Orlov, N.A., 21
Overby, J.S., 15

Pandey, D.S., 35
Parker, E.E., 191
Parola, A.J., 117
Paul, D.R., 77
Peters, K., 125
Pétillon*,, F.Y., 245
Pina, F., 117
Portalone, G., 183

Qanungo, K., 155

Ramaswamy, K., 131
Ramondo, F., 183
Reina, R., 147
Rickard, C.E., 197
Romão, C.C., 117
Roshchin, A.I., 163
Rossell, O., 147

Saak, W., 125
Sahay, A.N., 35
Schenk, W.A., 257
Schoell, N.J., 15
Schollhammer, P., 245
Seco, M., 147
Sharma, P., 35
Singh Sisodia, O., 35
Singh, Y., 197
Sotomayor, J., 117
Soum, A., 109
Stanczyk, W., 41
Stilter, A., 125
Stubbe, M., 257
Suzuki, N., 47
Szepes, L., 7
Sztáray, B., 7

Talarmin, J., 245
Tani, K., 253
Thomas, S., 1
Thompson, R.M., 77
Tiekink, E.R., 1
Tornero, J., 27
Torres, R., 27
Toscano, A., 35
T. Robinson, W., 169
Troupel, M., 103

Ueda, K., 253
Underhill, A.E., 191

Vass, G., 7
von Schnering, H.G., 125

Wakatsuki, Y., 47
Weidenbruch, M., 125
Whiteley, M.W., 265
Wocadlo, S., 211
Woodgate, P.D., 197
Wright, E., 77

Yamagata, T., 253
Yamaguchi, Y., 47
Yamamoto, Y., 223
Young, C.G., 1

Zachara, J., 89

Elsevier Science S.A.

ELSEVIER

Journal of Organometallic Chemistry 560 (1998) 277–281

Journal of Organometallic Chemistry

Subject index of Volume 560

Ab initio MO calculations
Molecular structure of phenylsilane: a study by gas-phase electron diffraction and ab initio molecular orbital calculations, 183
Acylpyrazol-5-one derivatives
Triphenylantimony(V) derivatives of acylpyrazol-5-ones, 95
Aggregate
Organogold(III) Metallacyclic Chemistry. Part 3. Self-assembly of the nonametallic gold(III)-silver(I)-sulfido aggregates $[\{LAu(\mu\text{-}S)_2AuL\}_3Ag_3X_2]^+$ (L = cycloaurated *N,N*-dimethylbenzylamine ligand; X = Cl, Br), by thiourea desulfurisation, 169
Alkene complexes
Preparation and reactions of palladium(0)–olefin complexes with iminophosphine ligands, 137
Alkenes
Rhodium-catalyzed reaction of aroyl chlorides with alkynes or alkenes in the presence of disilanes, 217
Alkynes
Rhodium-catalyzed reaction of aroyl chlorides with alkynes or alkenes in the presence of disilanes, 217
Allyl
Reactions of the cycloheptatrienyl complexes $[MX(CO)_2(\eta\text{-}C_7H_7)]$ (M = Mo, X = Br; M = W, X = I) with $CNBu^t$: X-ray crystal structure of $[WI(CO)_2(CNBu^t)_2(\eta^3\text{-}C_7H_7)]$, 265
2-Allylphenols
Synthesis of benzofurans via Pd^{2+}-catalyzed oxidative cyclization of 2-allylphenols, 163
Aluminium
Structure characterisation of the organoaluminium intermediate resulting from the alkylation of a chelated carbonyl group. Molecular structure of the trinuclear $[MeAl][C_{12}H_{20}O_4][AlMe_2]_2$ compound, 89
Amido ligand
A dimolybdenum(III) azido compound: its decomposition into amido and nitrido derivatives. Crystal structure of $[Mo_3(O)(N)Cp_3(SMe)_4]$, 245
Anchimeric assistance
1,3-Migration of a phenyl group in the conversion of $(Me_3Si)_2(PhMe_2Si)CSiMePhX$ into $(Me_3Si)_2(Ph_2MeSi)CSiMe_2Y$ species, 41
Antimony
Triphenylantimony(V) derivatives of acylpyrazol-5-ones, 95
Arene hydrido complexes
Synthesis and characterization of some arene hydrido-complexes $[Ru(\eta^6\text{-arene})(EPh_3)_2H]^+$ (η^6-arene = benzene, p-cymene or hexamethylbenzene; E = P, As or Sb). Crystal structure of $[Ru(\eta^6\text{-}C_6H_6)(PPh_3)_2H]BF_4$., 35
(η6-Arene)ruthenium
Preparations and structures of (η^6-arene)ruthenium(II) complexes bearing 1,1′-bis(diphenylphosphinomethyl)ferrocene or 1,1′-bis(diphenylphosphino)ferrocene, 223
Aroyl chrolides
Rhodium-catalyzed reaction of aroyl chlorides with alkynes or alkenes in the presence of disilanes, 217
Arsine
Synthesis and characterization of some arene hydrido-complexes $[Ru(\eta^6\text{-arene})(EPh_3)_2H]^+$ (η^6-arene = benzene, p-cymene or hexamethylbenzene; E = P, As or Sb). Crystal structure of $[Ru(\eta^6\text{-}C_6H_6)(PPh_3)_2H]BF_4$, 35
Azido ligand
A dimolybdenum(III) azido compound: its decomposition into amido and nitrido derivatives. Crystal structure of $[Mo_3(O)(N)Cp_3(SMe)_4]$, 245

Benzofuranes
Synthesis of benzofurans via Pd^{2+}-catalyzed oxidative cyclization of 2-allylphenols, 163
Bi–Bi bond
Synthesis and crystal structure of tetrakis(2,4,6-trimethylphenyl) dibismuthoxide, 211
Bidentate
Transition metal chemistry of phosphorus based ligands. Ruthenium(II) chemistry of bis(phosphino)amines, $X_2PN(R)PX_2$ (R = H or Ph, X = Ph; R = Ph, $X_2 = O_2C_6H_4$), 131
Bis(oxime)complexes
Steric *cis* influence and lateral compression of the metallabicycle in bis(dioxime) vitamin B_{12} models, 155
Bis(phosphino)amines
Transition metal chemistry of phosphorus based ligands. Ruthenium(II) chemistry of bis(phosphino)amines, $X_2PN(R)PX_2$ (R = H or Ph, X = Ph; R = Ph, $X_2 = O_2C_6H_4$), 131
Bond angle
Synthesis and crystal structure of tetrakis(2,4,6-trimethylphenyl) dibismuthoxide, 211
Bond distance
Synthesis and crystal structure of tetrakis(2,4,6-trimethylphenyl) dibismuthoxide, 211
Borasiloxanes
Synthesis of difunctional borasiloxanes and their behavior in metathesis reactions, 109

Carbon monoxide
Electrochemical generation of a nickel–carbonyl complex, catalyst for the electroreductive coupling of organic halides and carbon monoxide into ketones, 103
Carbonyl
Synthesis and diastereoselective functionalisation of tricarbonyl[(3a,7a)-octahydro-3-substituted-2-(η^6-phenyl)benzoxazole]chromium(0) complexes, 197
Carbonyl alkylation
Structure characterisation of the organoaluminium intermediate resulting from the alkylation of a chelated carbonyl group. Molecular structure of the trinuclear $[MeAl][C_{12}H_{20}O_4][AlMe_2]_2$ compound, 89
Carbonylation catalysis
Electrochemical generation of a nickel–carbonyl complex, catalyst for the electroreductive coupling of organic halides and carbon monoxide into ketones, 103

Elsevier Science S.A.

Catalysis
Ligand exchange and catalysis in phenylation reactions mediated by lead tetracarboxylates, 77
Synthesis of benzofurans via Pd^{2+}-catalyzed oxidative cyclization of 2-allylphenols, 163
Cationic
Reductive dimerization of dialkyl acetylenedicarboxylate catalyzed by $[Rh(binap)(MeOH)_2]ClO_4$ in methanol, 253
Transition metal chemistry of phosphorus based ligands. Ruthenium(II) chemistry of bis(phosphino)amines, $X_2PN(R)PX_2$ (R = H or Ph, X = Ph; R = Ph, $X_2 = O_2C_6H_4$), 131
CC activation
Reduction reactions of the metallocene complex $(\eta^5\text{-}C_5H_4CMe_2C_9H_7)_2ZrCl_2$, 69
CH activation
Reduction reactions of the metallocene complex $(\eta^5\text{-}C_5H_4CMe_2C_9H_7)_2ZrCl_2$, 69
Chiral auxiliaries
Enantioselective organic syntheses using chiral transition metal complexes V. (2*S*,3*S*)-Bis(dibenzophospholyl)butane, a rigid (*S*,*S*)-CHIRAPHOS analog, 257
Chromium
Synthesis and characterization of chromocenes containing bulky cyclopentadienyl ligands, 15
Synthesis and diastereoselective functionalisation of tricarbonyl [(3a,7a)-octahydro-3-substituted-2-(η^6-phenyl)benzoxazole] chromium(0) complexes, 197
Chromocenes
Synthesis and characterization of chromocenes containing bulky cyclopentadienyl ligands, 15
Cis-influences
Steric *cis* influence and lateral compression of the metallabicycle in bis(dioxime) vitamin B_{12} models, 155
Clusters
Synthesis, characterization and electrochemical studies of the heterometallic diclusters $[\{Fe_2(\mu\text{-}CO)(CO)_6(\mu\text{-}PPh_2)Au\}_2(diphosphine)]$ (diphosphine = dppm, dppip, dppe, dppp), 147
Conformational dynamics
The conformational dynamics of dicarbonylcyclopentadienyl(2-oxopropyl)iron(II): An infrared and molecular mechanics study, 63
Copper
Synthesis of germylcopper compounds by hydride method. Crystal structure of $(C_6F_5)_3GeCu(PPh_3)_2$, 21
Crystal structure
A dimolybdenum(III) azido compound: its decomposition into amido and nitrido derivatives. Crystal structure of $[Mo_3(O)(N)Cp_3(SMe)_4]$, 245
Dicarbonyl dithio ligand complexes of tungsten(II), 1
Organogold(III) metallacyclic chemistry. Part 4. Synthesis, characterisation, and biological activity of gold(III)-thiosalicylate and -salicylate complexes, 233
Seven-coordinate thiophene-3-acetonitrile complexes of tungsten(II). Crystal structures of $[WI_2(CO)_3\{NCCH_2(3\text{-}C_4H_3S)\}_2]$ and $[WI_2(CO)_3\{NCCH_2(3\text{-}C_4H_3S)\}(AsPh_3)]$, 191
Structure characterisation of the organoaluminium intermediate resulting from the alkylation of a chelated carbonyl group. Molecular structure of the trinuclear $[MeAl][C_{12}H_{20}O_4][AlMe_2]_2$ compound, 89
Synthesis and characterization of chromocenes containing bulky cyclopentadienyl ligands, 15
Synthesis and crystal structure of tetrakis(2,4,6-trimethylphenyl) dibismuthoxide, 211
Synthesis and diastereoselective functionalisation of tricarbonyl[(3a,7a)-octahydro-3-substituted-2-(η^6-phenyl)benzoxazole]chromium(0) complexes, 197
Crystal structures
An octahedral stannylmanganese stannylene complex, 125
Cyanide bridges
Synthesis and characterization of binuclear transition metal–rhenium(VII) complexes with bridging cyanide ligands, 117
Cyclocarboborasiloxanes
Synthesis of difunctional borasiloxanes and their behavior in metathesis reactions, 109
Cycloheptatrienyl
Reactions of the cycloheptatrienyl complexes $[MX(CO)_2(\eta\text{-}C_7H_7)]$ (M = Mo, X = Br; M = W, X = I) with $CNBu^t$: X-ray crystal structure of $[WI(CO)_2(CNBu^t)_2(\eta^3\text{-}C_7H_7)]$, 265
Cyclooctatetraene
Photoelectron spectroscopy of mono and binuclear iron and chromium cyclooctatetraene complexes, 7
Cyclopentadienyl
A dimolybdenum(III) azido compound: its decomposition into amido and nitrido derivatives. Crystal structure of $[Mo_3(O)(N)Cp_3(SMe)_4]$, 245
Synthesis and characterization of oxo- and thiophosphorylcyclopentadienyl Ti(IV) thiolate complexes. Crystal structures of $[(\eta^5\text{-}C_5H_4P(S)Ph_2)(\eta^5\text{-}C_5H_4SiMe_3)TiCl_2]$ and $[(\eta^5\text{-}C_5H_4P(S)Ph_2)_2Ti(SPh)_2]\cdot C_4H_{10}O$, 27

Desulfurisation
Organogold(III) Metallacyclic Chemistry. Part 3. Self-assembly of the nonametallic gold(III)-silver(I)-sulfido aggregates $[\{LAu(\mu\text{-}S)_2AuL\}_3Ag_3X_2]^+$ (L = cycloaurated *N*,*N*-dimethylbenzylamine ligand; X = Cl, Br), by thiourea desulfurisation, 169
Di- and trimolybdenum complex
A dimolybdenum(III) azido compound: its decomposition into amido and nitrido derivatives. Crystal structure of $[Mo_3(O)(N)Cp_3(SMe)_4]$, 245
Dicarbonyl
Dicarbonyl dithio ligand complexes of tungsten(II), 1
Dicarbonylcyclopentadienyl(2-oxopropyl)iron(II)
The conformational dynamics of dicarbonylcyclopentadienyl(2-oxopropyl)iron(II): An infrared and molecular mechanics study, 63
Dimerization
Reductive dimerization of dialkyl acetylenedicarboxylate catalyzed by $[Rh(binap)(MeOH)_2]ClO_4$ in methanol, 253
Diphosphine
Synthesis, characterization and electrochemical studies of the heterometallic diclusters $[\{Fe_2(\mu\text{-}CO)(CO)_6(\mu\text{-}PPh_2)Au\}_2(diphosphine)]$ (diphosphine = dppm, dppip, dppe, dppp), 147
Disilanes
Rhodium-catalyzed reaction of aroyl chlorides with alkynes or alkenes in the presence of disilanes, 217
Dithio ligand
Dicarbonyl dithio ligand complexes of tungsten(II), 1
Dpmf–Ru complexes
Preparations and structures of (η^6-arene)ruthenium(II) complexes bearing 1,1′-bis(diphenylphosphinomethyl)ferrocene or 1,1′-bis(diphenylphosphino)ferrocene, 223
Dppf–Ru complexes
Preparations and structures of (η^6-arene)ruthenium(II) complexes bearing 1,1′-bis(diphenylphosphinomethyl)ferrocene or 1,1′-bis(diphenylphosphino)ferrocene, 223

Electrochemistry
Preparations and structures of (η^6-arene)ruthenium(II) complexes bearing 1,1′-bis(diphenylphosphinomethyl)ferrocene or 1,1′-bis(diphenylphosphino)ferrocene, 223

Electroreduction
Electrochemical generation of a nickel–carbonyl complex, catalyst for the electroreductive coupling of organic halides and carbon monoxide into ketones, 103
Electrospray
Organogold(III) metallacyclic chemistry. Part 4. Synthesis, characterisation, and biological activity of gold(III)-thiosalicylate and -salicylate complexes, 233
Electrospray mass spectrometry
Organogold(III) Metallacyclic Chemistry. Part 3. Self-assembly of the nonametallic gold(III)-silver(I)-sulfido aggregates $[\{LAu(\mu\text{-}S)_2AuL\}_3Ag_3X_2]^+$ (L = cycloaurated *N,N*-dimethylbenzylamine ligand; X = Cl, Br), by thiourea desulfurisation, 169

Fe/Re binuclear complexes
Synthesis and characterization of binuclear transition metal–rhenium(VII) complexes with bridging cyanide ligands, 117
FT-IR
The conformational dynamics of dicarbonylcyclopentadienyl(2-oxopropyl)iron(II): An infrared and molecular mechanics study, 63

Gas-phase electron diffraction
Molecular structure of phenylsilane: a study by gas-phase electron diffraction and ab initio molecular orbital calculations, 183
Germanium
Synthesis of germylcopper compounds by hydride method. Crystal structure of $(C_6F_5)_3GeCu(PPh_3)_2$, 21
Gold
Organogold(III) Metallacyclic Chemistry. Part 3. Self-assembly of the nonametallic gold(III)-silver(I)-sulfido aggregates $[\{LAu(\mu\text{-}S)_2AuL\}_3Ag_3X_2]^+$ (L = cycloaurated *N,N*-dimethylbenzylamine ligand; X = Cl, Br), by thiourea desulfurisation, 169
Organogold(III) metallacyclic chemistry. Part 4. Synthesis, characterisation, and biological activity of gold(III)-thiosalicylate and -salicylate complexes, 233

Hapticity
Reactions of the cycloheptatrienyl complexes $[MX(CO)_2(\eta\text{-}C_7H_7)]$ (M = Mo, X = Br; M = W, X = I) with $CNBu^t$: X-ray crystal structure of $[WI(CO)_2(CNBu^t)_2(\eta^3\text{-}C_7H_7)]$, 265
Heterometallic
Synthesis, characterization and electrochemical studies of the heterometallic diclusters $[\{Fe_2(\mu\text{-}CO)(CO)_6(\mu\text{-}PPh_2)Au\}_2(\text{diphosphine})]$ (diphosphine = dppm, dppip, dppe, dppp), 147
1-Hexene
Structural characterization of *ansa*-zirconocene dichloride bearing a vicinal di-*tert*-butylcyclopentadienyl ligand and high pressure polymerization of 1-hexene catalyzed by sterically hindered zirconocene complexes, 47
High pressure
Structural characterization of *ansa*-zirconocene dichloride bearing a vicinal di-*tert*-butylcyclopentadienyl ligand and high pressure polymerization of 1-hexene catalyzed by sterically hindered zirconocene complexes, 47
Hydride method
Synthesis of germylcopper compounds by hydride method. Crystal structure of $(C_6F_5)_3GeCu(PPh_3)_2$, 21

Iron
An octahedral stannylmanganese stannylene complex, 125
Isocoumarines
Synthesis of benzofurans via Pd^{2+}-catalyzed oxidative cyclization of 2-allylphenols, 163
Isocyanide
Reactions of the cycloheptatrienyl complexes $[MX(CO)_2(\eta\text{-}C_7H_7)]$ (M = Mo, X = Br; M = W, X = I) with $CNBu^t$: X-ray crystal structure of $[WI(CO)_2(CNBu^t)_2(\eta^3\text{-}C_7H_7)]$, 265

Laser flash photolysis
A kinetic and spectroscopic study of the interaction between a $M(CO)_5$ (M = Cr, W) fragment and ethyl diazoacetate, 55
Lead(IV)
Ligand exchange and catalysis in phenylation reactions mediated by lead tetracarboxylates, 77
Ligand
A kinetic and spectroscopic study of the interaction between a $M(CO)_5$ (M = Cr, W) fragment and ethyl diazoacetate, 55
Ligand modification
Ligand exchange and catalysis in phenylation reactions mediated by lead tetracarboxylates, 77

Manganese
An octahedral stannylmanganese stannylene complex, 125
Mercury(II)
Ligand exchange and catalysis in phenylation reactions mediated by lead tetracarboxylates, 77
Metallacycle
Organogold(III) metallacyclic chemistry. Part 4. Synthesis, characterisation, and biological activity of gold(III)-thiosalicylate and -salicylate complexes, 233
Metallocene complexes
Reduction reactions of the metallocene complex $(\eta^5\text{-}C_5H_4CMe_2C_9H_7)_2ZrCl_2$, 69
Metallocenes
Synthesis and characterization of chromocenes containing bulky cyclopentadienyl ligands, 15
Molecular mechanics
The conformational dynamics of dicarbonylcyclopentadienyl(2-oxopropyl)iron(II): An infrared and molecular mechanics study, 63
Molecular structure
Molecular structure of phenylsilane: a study by gas-phase electron diffraction and ab initio molecular orbital calculations, 183
Molybdenum
Reactions of the cycloheptatrienyl complexes $[MX(CO)_2(\eta\text{-}C_7H_7)]$ (M = Mo, X = Br; M = W, X = I) with $CNBu^t$: X-ray crystal structure of $[WI(CO)_2(CNBu^t)_2(\eta^3\text{-}C_7H_7)]$, 265
Mono and binuclear complexes
Photoelectron spectroscopy of mono and binuclear iron and chromium cyclooctatetraene complexes, 7
Monodentate
Transition metal chemistry of phosphorus based ligands. Ruthenium(II) chemistry of bis(phosphino)amines, $X_2PN(R)PX_2$ (R = H or Ph, X = Ph; R = Ph, $X_2 = O_2C_6H_4$), 131
Mononuclear
Transition metal chemistry of phosphorus based ligands. Ruthenium(II) chemistry of bis(phosphino)amines, $X_2PN(R)PX_2$ (R = H or Ph, X = Ph; R = Ph, $X_2 = O_2C_6H_4$), 131
Mo/Re binuclear complexes
Synthesis and characterization of binuclear transition metal–rhenium(VII) complexes with bridging cyanide ligands, 117

Nickel–bipyridine complexes
Electrochemical generation of a nickel–carbonyl complex, catalyst for the electroreductive coupling of organic halides and carbon monoxide into ketones, 103
Nitrido ligand
A dimolybdenum(III) azido compound: its decomposition into amido and nitrido derivatives. Crystal structure of $[Mo_3(O)(N)Cp_3(SMe)_4]$, 245

Olefin polymerization
Structural characterization of *ansa*-zirconocene dichloride bearing a vicinal di-*tert*-butylcyclopentadienyl ligand and high pressure polymerization of 1-hexene catalyzed by sterically hindered zirconocene complexes, 47
Olefin rotation
Preparation and reactions of palladium(0)–olefin complexes with iminophosphine ligands, 137
Organosilanes
1,3-Migration of a phenyl group in the conversion of $(Me_3Si)_2(PhMe_2Si)CSiMePhX$ into $(Me_3Si)_2(Ph_2MeSi)CSiMe_2Y$ species, 41
Oxidation addition
Preparation and reactions of palladium(0)–olefin complexes with iminophosphine ligands, 137

Palladium
Preparation and reactions of palladium(0)–olefin complexes with iminophosphine ligands, 137
Palladium(II)
Synthesis of benzofurans via Pd^{2+}-catalyzed oxidative cyclization of 2-allylphenols, 163
Pentacarbonyl fragment
A kinetic and spectroscopic study of the interaction between a $M(CO)_5$ (M = Cr, W) fragment and ethyl diazoacetate, 55
Phenylation
Ligand exchange and catalysis in phenylation reactions mediated by lead tetracarboxylates, 77
1,3-phenyl migration
1,3-Migration of a phenyl group in the conversion of $(Me_3Si)_2(PhMe_2Si)CSiMePhX$ into $(Me_3Si)_2(Ph_2MeSi)CSiMe_2Y$ species, 41
Phenylsilane
Molecular structure of phenylsilane: a study by gas-phase electron diffraction and ab initio molecular orbital calculations, 183
Phosphine
Synthesis and characterization of some arene hydrido-complexes $[Ru(\eta^6\text{-arene})(EPh_3)_2H]^+$ (η^6-arene = benzene, p-cymene or hexamethylbenzene; E = P, As or Sb). Crystal structure of $[Ru(\eta^6\text{-}C_6H_6)(PPh_3)_2H]BF_4$, 35
Phosphine ligands
Enantioselective organic syntheses using chiral transition metal complexes V. (2*S*,3*S*)-Bis(dibenzophospholyl)butane, a rigid (*S*,*S*)-CHIRAPHOS analog, 257
Phospholes
Enantioselective organic syntheses using chiral transition metal complexes V. (2*S*,3*S*)-Bis(dibenzophospholyl)butane, a rigid (*S*,*S*)-CHIRAPHOS analog, 257
Photoelectron spectroscopy
Photoelectron spectroscopy of mono and binuclear iron and chromium cyclooctatetraene complexes, 7
Pyrazolylborate
Dicarbonyl dithio ligand complexes of tungsten(II), 1

Reaction mechanism
1,3-Migration of a phenyl group in the conversion of $(Me_3Si)_2(PhMe_2Si)CSiMePhX$ into $(Me_3Si)_2(Ph_2MeSi)CSiMe_2Y$ species, 41
Re(VII) oxides
Synthesis and characterization of binuclear transition metal–rhenium(VII) complexes with bridging cyanide ligands, 117
Rhodium
Reductive dimerization of dialkyl acetylenedicarboxylate catalyzed by $[Rh(binap)(MeOH)_2]ClO_4$ in methanol, 253
Rhodium catalyst
Rhodium-catalyzed reaction of aroyl chlorides with alkynes or alkenes in the presence of disilanes, 217
Ring-closing metathesis
Synthesis of difunctional borasiloxanes and their behavior in metathesis reactions, 109
Ruthenium
Enantioselective organic syntheses using chiral transition metal complexes V. (2*S*,3*S*)-Bis(dibenzophospholyl)butane, a rigid (*S*,*S*)-CHIRAPHOS analog, 257
Synthesis and characterization of some arene hydrido-complexes $[Ru(\eta^6\text{-arene})(EPh_3)_2H]^+$ (η^6-arene = benzene, p-cymene or hexamethylbenzene; E = P, As or Sb). Crystal structure of $[Ru(\eta^6\text{-}C_6H_6)(PPh_3)_2H]BF_4$, 35
Ruthenium(II) complexes
Transition metal chemistry of phosphorus based ligands. Ruthenium(II) chemistry of bis(phosphino)amines, $X_2PN(R)PX_2$ (R = H or Ph, X = Ph; R = Ph, $X_2 = O_2C_6H_4$), 131

Salicylate
Organogold(III) metallacyclic chemistry. Part 4. Synthesis, characterisation, and biological activity of gold(III)-thiosalicylate and -salicylate complexes, 233
Seven-coordinate
Seven-coordinate thiophene-3-acetonitrile complexes of tungsten(II). Crystal structures of $[WI_2(CO)_3\{NCCH_2(3\text{-}C_4H_3S)\}_2]$ and $[WI_2(CO)_3\{NCCH_2(3\text{-}C_4H_3S)\}(AsPh_3)]$, 191
Silicon
Molecular structure of phenylsilane: a study by gas-phase electron diffraction and ab initio molecular orbital calculations, 183
Silver
Organogold(III) Metallacyclic Chemistry. Part 3. Self-assembly of the nonametallic gold(III)-silver(I)-sulfido aggregates $[\{LAu(\mu\text{-}S)_2AuL\}_3Ag_3X_2]^+$ (L = cycloaurated *N*,*N*-dimethylbenzylamine ligand; X = Cl, Br), by thiourea desulfurisation, 169
Stannylene
An octahedral stannylmanganese stannylene complex, 125
Stereoselection
Synthesis and diastereoselective functionalisation of tricarbonyl [(3a,7a)-octahydro-3-substituted-2-(η^6-phenyl)benzoxazole] chromium(0) complexes, 197
Stibine
Synthesis and characterization of some arene hydrido-complexes $[Ru(\eta^6\text{-arene})(EPh_3)_2H]^+$ (η^6-arene = benzene, p-cymene or hexamethylbenzene; E = P, As or Sb). Crystal structure of $[Ru(\eta^6\text{-}C_6H_6)(PPh_3)_2H]BF_4$, 35
Sulfide
Organogold(III) Metallacyclic Chemistry. Part 3. Self-assembly of the nonametallic gold(III)-silver(I)-sulfido aggregates $[\{LAu(\mu\text{-}S)_2AuL\}_3Ag_3X_2]^+$ (L = cycloaurated *N*,*N*-dimethylbenzylamine ligand; X = Cl, Br), by thiourea desulfurisation, 169

tert-Butyl group
Structural characterization of *ansa*-zirconocene dichloride bearing a vicinal di-*tert*-butylcyclopentadienyl ligand and high pressure polymerization of 1-hexene catalyzed by sterically hindered zirconocene complexes, 47
Tetrakis(2,4,6,-trimethylphenyl)dibismuth
Synthesis and crystal structure of tetrakis(2,4,6-trimethylphenyl) dibismuthoxide, 211
Thiolate
Synthesis and characterization of oxo- and thiophosphorylcyclopentadienyl Ti(IV) thiolate complexes. Crystal structures of $[(\eta^5\text{-}C_5H_4P(S)Ph_2)(\eta^5\text{-}C_5H_4SiMe_3)TiCl_2]$ and $[(\eta^5\text{-}C_5H_4P(S)Ph_2)_2Ti(SPh)_2]\cdot C_4H_{10}O$, 27
Thiolato-bridged complexes
A dimolybdenum(III) azido compound: its decomposition into amido and nitrido derivatives. Crystal structure of $[Mo_3(O)(N)Cp_3(SMe)_4]$, 245

Thiophene-3-acetonitrile
Seven-coordinate thiophene-3-acetonitrile complexes of tungsten(II). Crystal structures of $[WI_2(CO)_3\{NCCH_2(3\text{-}C_4H_3S)\}_2]$ and $[WI_2(CO)_3\{NCCH_2(3\text{-}C_4H_3S)\}(AsPh_3)]$, 191
Thiosalicylate
Organogold(III) metallacyclic chemistry. Part 4. Synthesis, characterisation, and biological activity of gold(III)-thiosalicylate and -salicylate complexes, 233
Thiourea
Organogold(III) Metallacyclic Chemistry. Part 3. Self-assembly of the nonametallic gold(III)-silver(I)-sulfido aggregates $[\{LAu(\mu\text{-}S)_2AuL\}_3Ag_3X_2]^+$ (L = cycloaurated *N*,*N*-dimethylbenzylamine ligand; X = Cl, Br), by thiourea desulfurisation, 169
Titanium
Synthesis and characterization of oxo- and thiophosphorylcyclopentadienyl Ti(IV) thiolate complexes. Crystal structures of $[(\eta^5\text{-}C_5H_4P(S)Ph_2)(\eta^5\text{-}C_5H_4SiMe_3)TiCl_2]$ and $[(\eta^5\text{-}C_5H_4P(S)Ph_2)_2Ti(SPh)_2]\cdot C_4H_{10}O$, 27
Triphenylantimony
Triphenylantimony(V) derivatives of acylpyrazol-5-ones, 95
Tungsten
Dicarbonyl dithio ligand complexes of tungsten(II), 1
Reactions of the cycloheptatrienyl complexes $[MX(CO)_2(\eta\text{-}C_7H_7)]$ (M = Mo, X = Br; M = W, X = I) with $CNBu^t$: X-ray crystal structure of $[WI(CO)_2(CNBu^t)_2(\eta^3\text{-}C_7H_7)]$, 265
Tungsten(II)
Seven-coordinate thiophene-3-acetonitrile complexes of tungsten(II). Crystal structures of $[WI_2(CO)_3\{NCCH_2(3\text{-}C_4H_3S)\}_2]$ and $[WI_2(CO)_3\{NCCH_2(3\text{-}C_4H_3S)\}(AsPh_3)]$, 191

Vitamin B_{12} model
Steric *cis* influence and lateral compression of the metallabicycle in bis(dioxime) vitamin B_{12} models, 155

X-ray
Triphenylantimony(V) derivatives of acylpyrazol-5-ones, 95
X-ray diffraction
Synthesis of germylcopper compounds by hydride method. Crystal structure of $(C_6F_5)_3GeCu(PPh_3)_2$, 21

Zirconium
Reduction reactions of the metallocene complex $(\eta^5\text{-}C_5H_4CMe_2C_9H_7)_2ZrCl_2$, 69
Zirconocene
Structural characterization of *ansa*-zirconocene dichloride bearing a vicinal di-*tert*-butylcyclopentadienyl ligand and high pressure polymerization of 1-hexene catalyzed by sterically hindered zirconocene complexes, 47